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Concrete Patch Repair

ThistleBond 'Concrete Patch Repair' is a high performance self-priming epoxy repair mortar specifically designed for repairing damaged and eroded concrete surfaces.

ThistleBond 'Concrete Patch Repair' is based on a unique blend of epoxy resins with polyamino amine adduct with a blend of reinforced silica quartz minerals which have been specifically selected to provide the optimum level of adhesion, abrasion, impact and chemical resistance.

ThistleBond 'Concrete Patch Repair' is fast curing allowing repairs to be carried out on any concrete surface with the minimum disruption to services.

Before proceeding, please read the following information carefully to ensure that the correct application procedure is fully understood.

SURFACE PREPARATION

All dirt and loose friable material should be removed, and the surface cut back to a sound edge. Any exposed re-bars must be fully exposed and treated with a **ThistleBond 'Anti-Corrosion Aluminium'**.

PRIMING

Whilst **ThistleBond 'Concrete Patch Repair'** can be used without a primer, on certain very porous surfaces a coat of the mixed **ThistleBond 'Concrete Patch Repair'** resins should be applied to prime / seal the surface.

Two parts of base resin should be mixed with one part of activator by volume and the mixed system brushed into the prepared surface.

MIXING

ThistleBond 'Concrete Patch Repair' is a three component material which must be mixed together prior to use.

When mixing the complete unit the aggregate component should be removed from the outer container, which is then used as the mixing container. The base and activator containers should be emptied into the mixing container and mixed until homogeneous. The aggregate should now be added and thoroughly mixed into the base resins to ensure complete wetting out.

APPLICATION

The mixed **ThistleBond 'Concrete Patch Repair'** should be applied by float or trowel to the prepared surface with the material being pressed firmly onto the surface then finished by float to give a smooth surface.

All equipment must be cleaned IMMEDIATELY after use with **ThistleBond 'Cleaner'**.

Volume Capacity

450 cc (27.5 cu. in) per kilo

PHYSICAL CONSTANTS

Mixing Ratio Mix as supplied.
When mixing less than the complete unit, two volumes of base and one volume of activator should be mixed together and then aggregate added to mix to give the desired consistency.

Appearance Base Clear Liquid
Activator Clear Amber Liquid
Aggregate Coloured Aggregate

| | | |
|--|---|--|
| Drying & Cure times at 20°C | Usable Life | 12 minutes (resins) 25 minutes (with aggregate) |
| | Full Cure | 3½ hours |
| | | |
| Volume Solids | 100% | |
| V.O.C. | Nil | |
| Shelf Life | Use within 5 years of purchase. Store in original sealed containers at temperatures between 5°C (40°F) and 30°C (86°F). | |
| Food Contact | Meets USDA requirements for incidental food contact. Meets FDA requirements CFR 21.175.300 for food contact. | |

PHYSICAL PROPERTIES

| | |
|-----------------------------|-------------------------------------|
| Abrasion Resistance | 145 mgm weight loss per 1000 cycles |
| ASTMD4060 | - 1 kg coad - CS17 wheel |
| Impact Resistance | 1.8 Joules (16 in lbs) |
| ASTMD2794 | |
| Dry Heat Resistance | 135°C (275°F) |
| ASTMD2485 | |
| Direct Pull Adhesion | 35 kg/cm² (500 psi) - concrete |
| ASTMD4541 | (concrete failure) |
| Scrub Resistance | >10,000 cycles |
| ASTMD2486 | |
| Compressive Strength | 840 kg/cm² (12000 psi) |
| ASTMD695 | |
| Flexural Strength | 450 kg/cm² (6500 psi) |
| ASTMD790 | |
| Shrinkage | Nil |
| ASTMC246 | |

HEALTH AND SAFETY

As long as normal good practice is observed **ThistleBond 'Concrete Patch Repair'** can be safely used.

Protective gloves should be worn.

A fully detailed **Material Safety Data Sheet** is either included with the material or is available on request.

PACKAGING

Supplied in 5 kg packs.

The information provided in this Product Data Sheet is intended as a general guide only and should not be used for specification purposes. The information is given in good faith but we assume no responsibility for the use made of the product or this information because this is outside the control of the company. Users should determine the suitability of the product for their own particular purposes by their own tests. Detailed specifications are available on request from the company.



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